AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original): A ceramic honeycomb structure comprising a ceramic honeycomb body comprising axial grooves on its periphery and cell walls constituting a larger number of flow paths inside said grooves, and a peripheral wall layer covering said grooves, wherein there are stress release portions at least partially in said peripheral wall layer and/or between said peripheral wall layer and said grooves.
- 2. (original): The ceramic honeycomb structure according to claim 1, wherein said stress release portions are voids provided in said peripheral wall layer such that they are open on a periphery thereof.
- 3. (original): The ceramic honeycomb structure according to claim 2, wherein the total length of said voids is equal to or larger than the full length of said ceramic honeycomb structure.
- 4. (currently amended): The ceramic honeycomb structure according to claim 2-or 3, wherein voids provided in said peripheral wall layer are in the form of a slit.
- 5. (currently amended): The ceramic honeycomb structure according to [any one of elaims 2 to 4] claim 2, wherein voids provided in said peripheral wall layer are cracks in said peripheral wall layer.
- 6. (original): The ceramic honeycomb structure according to claim 1, wherein said stress release portions are voids provided between said peripheral wall layer and said grooves.
 - 7. (original): The ceramic honeycomb structure according to claim 6, wherein the

number of grooves having said voids between said peripheral wall layer and said grooves is 5% or more of the number of the total grooves.

- 8. (original): A ceramic honeycomb structure comprising a ceramic honeycomb body comprising axial grooves on its periphery and cell walls constituting a larger number of flow paths inside said grooves, and a peripheral wall layer covering said grooves, wherein the thermal expansion coefficient of said peripheral wall layer is smaller than those of said cell walls in a radial direction.
- 9. (original): The ceramic honeycomb structure according to claim 8, comprising stress release portions at least partially in said peripheral wall layer and/or between said peripheral wall layer and said grooves.
- 10. (original): The ceramic honeycomb structure according to claim 9, wherein said stress release portions are voids provided in said peripheral wall layer such that they are open on a periphery thereof.
- 11. (original): The ceramic honeycomb structure according to claim 10, wherein the total length of said voids is equal to or larger than the full length of said ceramic honeycomb structure.
- 12. (currently amended): The ceramic honeycomb structure according to claim 10 or 11, wherein voids provided in said peripheral wall layer are in the form of a slit.
- 13. (currently amended): The ceramic honeycomb structure according to any one of elaims 10 to 12 claim 10, wherein voids provided in said peripheral wall layer are cracks in said peripheral wall layer.
- 14. (original): The ceramic honeycomb structure according to claim 9, wherein said stress release portions are voids provided between said peripheral wall layer and said grooves.

- 15. (original): The ceramic honeycomb structure according to claim 14, wherein the number of grooves having said voids between said peripheral wall layer and said grooves is 5% or more of the number of the total grooves.
- 16. (original): A ceramic honeycomb structure comprising a ceramic honeycomb body comprising axial grooves on its periphery and cell walls constituting a larger number of flow paths inside said grooves, and a peripheral wall layer covering said grooves, said ceramic honeycomb body being obtained by removing a peripheral wall before firing.
- 17. (currently amended): The ceramic honeycomb structure according to any one of elaims 1 to 16 claim 1, wherein said peripheral wall layer is formed before or after firing said ceramic honeycomb body.
- 18. (original): The ceramic honeycomb structure according to claim 17, wherein said ceramic honeycomb structure has an isostatic strength of 1.5 MPa or more.
- 19. (currently amended): The ceramic honeycomb structure according to any one of elaims 1 to 18 claim 1, wherein said cell walls have a porosity of 50 to 80% and an average pore size of 10 to 50 µm.
- 20. (original): A ceramic honeycomb structure comprising a ceramic honeycomb body comprising axial grooves on its periphery and cell walls constituting a larger number of flow paths inside said grooves, and a peripheral wall layer covering said grooves, wherein said peripheral wall layer is made of a mixture comprising amorphous silica particles and an amorphous oxide matrix.
- 21. (original): The ceramic honeycomb structure according to claim 20, wherein said is formed from colloidal silica and/or colloidal alumina.

- 22. (currently amended): The ceramic honeycomb structure according to claim 20 or 21, wherein said peripheral wall layer has a composition comprising 100 parts by mass of amorphous silica particles and 2 to 35 parts by mass of an amorphous oxide matrix.
- 23. (original): A method for producing a ceramic honeycomb structure comprising a ceramic honeycomb body comprising axial grooves on its periphery and cell walls constituting a larger number of flow paths inside said grooves, and a peripheral wall layer covering said grooves, comprising the steps of shaping a soft ceramic material by extrusion and drying it to form a ceramic honeycomb green body, removing a peripheral wall from said ceramic honeycomb green body to form a ceramic honeycomb body, and forming said peripheral wall layer on said ceramic honeycomb body before or after firing said ceramic honeycomb body.
- 24. (original): The method according to claim 23, wherein said green body is fired in a state where said ceramic honeycomb green body is placed on a table with its one opening end abutting said table, and a portion of said green body adjacent to said table is then cut.
- 25. (original): The method according to claim 24, wherein said peripheral wall is removed in a green body portion adjacent to said table according to a dimensional change predicted by firing.
- 26. (currently amended): The method according to claim 23 to 25, wherein said ceramic honeycomb body is made of cordierite, and wherein said peripheral wall layer is formed by a coating material comprising 100 parts by mass of amorphous silica particles and 2 to 35 parts by mass (on a solid basis) of colloidal silica and/or colloidal alumina.
- 27. A coating material for forming a peripheral wall layer of a ceramic honeycomb structure, comprising 100 parts by mass of amorphous silica particles and 2 to 35 parts by mass (on a solid basis) of colloidal silica and/or colloidal alumina.